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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/520,710

01/10/2005

Kiriakos Tsigirolou

2546

7590

08/07/2006

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EXAMINER

LE, JOHN H

ART UNIT

PAPER NUMBER

2863

DATE MAILED: 08/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/520,710

Applicant(s)

TSIGIROGLOU, KIRIAKOS

Examiner

John H. Le

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 and 10 is/are rejected.
- 7) ☒ Claim(s) 9 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____.  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____.   | 6) <input type="checkbox"/> Other: ____.                                    |

## **DETAILED ACTION**

### ***Specification***

1. The following guidelines illustrate the preferred layout and content for patent applications. These guidelines are suggested for the applicant's use.

#### **Arrangement of the Specification**

The following order or arrangement is preferred in framing the specification and, except for the reference to "Microfiche Appendix" and the drawings, each of the lettered items should appear in upper case, without underlining or bold type, as section headings. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) Title of the Invention.
- (b) Cross-References to Related Applications.
- (c) Statement Regarding Federally Sponsored Research or Development.
- (d) Reference to a "Microfiche Appendix" (see 37 CFR 1.96).
- (e) Background of the Invention.
  - 1. Field of the Invention.
  - 2. Description of the Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) Brief Summary of the Invention.
- (g) Brief Description of the Several Views of the Drawing(s).
- (h) Detailed Description of the Invention.
- (i) Claim or Claims (commencing on a separate sheet).
- (j) Abstract of the Disclosure (commencing on a separate sheet).
- (k) Drawings.
- (l) Sequence Listing (see 37 CFR 1.821-1.825).

The disclosure is objected to because of the following informalities:

Heading for each section of specification should be provided (Cross-References to Related Applications, Related Art, Background, Brief Summary of the Invention, Brief Description of the Several Views of the Drawing(s), Detail Description).

Appropriate correction is required.

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2. Page 7, line 20 of the specification refers to Figures 13-20 however there are not Figures 13-20 in the Drawings. Page 9, line 18 of the specification refers to Figures 24 and 25 however there are not Figures 24 and 25 in the Drawings. Appropriate correction is required.

### ***Claim Objections***

3. Claims 4, 5, 6, 8, and 10 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim *should refer to other claims in the alternative only or and/or, cannot depend from any other multiple dependent claim*. See MPEP § 608.01(n). Accordingly, the claims 4, 5, 6, 8, and 10 not been further treated on the merits.

4. Claims 7 and 8 are objected to because of the following informalities:

Claim 7, lines 2-3, "(GSM operators) (outdoor shelter)" should avoid.

Claims 8, line 4, "(e.g. metal)" should avoid.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kutzik et al. (US 2005/0278409) in view of Bartsch et al. (USP 6,459,955).

Regarding claim 1, Kutzik et al. teach an electronic device of compact design and construction characterized in that the above device collects, processes and transmits data from a specific area, which it supervises, to an information collection system, located at a long distance from the supervised area (e.g. Figs.1, 3, [0021]). The device in concern comprises a microprocessor (110), and sensors (112, 116, 120, 124) connected to it.

Kutzik et al. fail to teach the microprocessor and sensors are pertained by the integration on the same electronic printed circuit of the microprocessor with the sensors logical circuits, the reduction of the circuit dimensions and its compact construction structure.

Bartsch et al. teach the microprocessor (9) and sensors (4, 6) are pertained by the integration on the same electronic printed circuit (10) of the microprocessor (9) with the sensors logical circuits, the reduction of the circuit dimensions and its compact construction structure (see Fig.1, Col.5, lines 62-64).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the microprocessor and sensors are pertained by the integration on the same electronic printed circuit of the microprocessor with the sensors logical circuits, the reduction of the circuit dimensions and its compact construction structure as taught by Bartsch et al. in an electronic monitoring system of Kutzik et al. for the purpose of providing a computer processing unit capable of storing, receiving and transmitting data that is attached to said platform (Bartsch et al., Col.2, line 66-Col.3, line 1).

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Regarding claim 2, Bartsch et al. teach integrates the logic circuits of the sensors on the main printed circuit board (PCB), whereas the sensors are external and connected with the PCB logic circuits (see Fig.1, Col.5, lines 62-64).

Regarding claim 3, Bartsch et al. teach integrates on the same electronic printed circuit of the following additional sub-circuits: a) data input (port 29A-29D) to the microprocessor (9), b) power supply (5) and c) data output (port 29A-29D).

Regarding claim 4, Kutzik et al. teach an electronic device contains a combination of some of the following sensors: temperature monitoring and indication (e.g. [0163]), water level monitoring and indication (e.g. [0072]-[0076]), smoke detection and indication (e.g. [0068]-[0069]), open door monitoring and indication (e.g. [0162]), power supply battery voltage monitoring and indication (e.g.[0078]); intruder monitoring and indication (e.g. [0023]).

Regarding claim 5, Kutzik et al. teach it integrates on the electronic printed circuit of two or more additional independent relay circuits serving the signaling needs 9e.g. [0062]).

Regarding claim 6, Kutzik et al. teach it is designed for use in the antenna shelters (room) (e.g. [0027], [0039]).

Regarding claim 7, Kutzik et al. teach it is designed for use in the antenna shelters of mobile telephony (e.g. [0027], [0039], [0104], [0171]).

7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kutzik et al. (US 2005/0278409) in view of Bartsch et al. (USP 6,459,955) as applied to claim 1 above, and further in view of Ingalsbe (USP 4,925,393).

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Regarding claim 8, the combination of Kutzik et al. and Bartsch et al. taught supra, discloses the claimed invention except the electronic printed circuit is placed in a case consisting of a base, with four side walls and a detachable cover and is made of a material providing safety to the staff, protection from environmental elements and electromagnetic shielding from and to the environment.

Ingalsbe teaches the electronic printed circuit (21) is placed in a case consisting of a base (58), with four side walls (43) and a detachable cover (housing 11) and is made of a material providing safety to the staff, protection from environmental elements and electromagnetic shielding from and to the environment (e.g. Col.3, lines 57-62, Col.4, lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the electronic printed circuit (21) is placed in a case consisting of a base (58), with four side walls (43) and a detachable cover (housing 11) and is made of a material providing safety to the staff as taught by Ingalsbe in an electronic monitoring system of Kutzik et al. in view of Bartsch et al. for the purpose of providing a compact structure and increasing user comfort and safety (Ingalsbe, Col.3, lines 57-62).

8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kutzik et al. (US 2005/0278409) in view of Bartsch et al. (USP 6,459,955) as applied to claim 1 above, and further in view of Sitnick et al. (USP 4,763,937).

Regarding claim 10, the combination of Kutzik et al. and Bartsch et al. taught supra, discloses the claimed invention except place an anti-tamper switch

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on the detachable cover, which signals a corresponding illegal tamper alarm if the case is opened by non authorized personnel.

Sittnick et al. teach place an anti-tamper switch (200), which signals a corresponding illegal tamper alarm if the case is opened by non authorized personnel (e.g. Col.13, lines 5-10).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include an anti-tamper switch (200) as taught by Sittnick et al. in an electronic monitoring system of Kutzik et al. in view of Bartsch et al. for the purpose of providing an electromagnetic lock system which is adaptable for providing controlled access through a doorway (Sittnick et al., Col.1, lines 61-63).

***Allowable Subject Matter***

9. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 9, none of the prior art of record teaches or suggests the combination of an electronic device of compact design and construction characterized in that the above device collects, processes and transmits data from a specific area, which it supervises, to an information collection system, located at a long distance from the supervised area, wherein the electronic device comprises a microprocessor, and sensors connected to it and is pertained by the integration on the same electronic printed circuit of the microprocessor with the sensors logical circuits, the reduction of the circuit dimensions and its



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compact construction structure; wherein it integrates on the electronic printed circuit of two or more additional independent relay circuits serving the signaling needs; wherein it is designed for use in the antenna shelters of mobile telephony; and wherein it contains in its case of the following: a) openings at the sidewalls to allow passage and mounting of the circuits connecting cables at the internal part of the case with external peripheral devices. b) metallic supports for mounting the electronic printed circuit on the receptacle base. c) metallic duct in the case base for driving and protection of the power cable. d) grounding posts for electromagnetic and safety grounding. e) a grounding post on the detachable cover, connected with the grounding of the main body for complete electromagnetic shielding and safety. f) a special metallic base for battery mounting and support. g) points of support of the transformer. h) metal strips welded on the external surface of the main body of the case base (290X76 mm) with openings for side mounting of the device in racks. It is these limitations as they are claimed in the combination with other limitations of claim, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

#### ***Contact Information***

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H. Le whose telephone number is 571 272 2275. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571 272 2269. The

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fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

August 2, 2006

BRYAN BUI  
PRIMARY EXAMINER

A handwritten signature in black ink, appearing to read 'Bryan Bui', is positioned below the printed name and title.